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		ISPT; PLUR=YES; OP=OR	
	L14	L13 and (stylus or touch near4 screen or touch near4 display)	111
	L13	L12 and (service adj provider)	286
	L12	L11 and (wireless or RF or bluetooth or transceiver or transponder)	733
	Lil	L10 and (smart adj card or smartcard or ic adj card or chip adj card or debit adj card or pre-paid adj card)	1004
	L10	L9 and (internet or web or lan or wan or network?)	13096
	L9	(webpad or tablet or pda or personal adj digital adj assitant or portable adj device or internet adj applicance or palmtop or personal adj computing adj device)	126386
	L8	RSC and webpad	1
	L7	L6 and (webpad or palmtop or pda or portable adj device)	2
	L6	qubit	90

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		SPT; PLUR=YES; OP=OR	
	L2	L1 and (contactless adj card or contactless adj chip adj card or chip adj card or ic adj card or magnetic adj card or smartcard or smart adj card)	52
	Ll	internet adj terminal	459

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DB=USPT; $PLUR=YES$; $OP=OR$			
	L15	L14 and smartcard	7
	L14	transponder and pda	160
	L13	internet adj applicance and smartcard	0
	L12	Internet adj applicance and ic adj card	0
	L11	webpad	63
	L10	L7 and ic adj card	3
	L9	L7 and card	110
	Ŀ8	L7 and smartcard	5
	L7	L6 and (service adj provider or internet adj provider)	189
	L6	computer near5 connect? near5 internet	371
	L5	L4 and wireless	142
	L4	L3 and (password or pin)	296
	L3	L2 and (web or Internet or Internet adj access)	448
	Ŀ2	L1 and smartcard	727
	L1	computer or pc	546322

Refine Search

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smart adj card adj transponder	15

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<u>L16</u>	smart adj card adj transponder	15	<u>L16</u>
<u>L15</u>	L14 and smartcard	7	<u>L15</u>
<u>L14</u>	transponder and pda	160	<u>L14</u>
<u>L13</u>	internet adj applicance and smartcard	0	<u>L13</u>
<u>L12</u>	Internet adj applicance and ic adj card	0	<u>L12</u>
<u>L11</u>	webpad	63	<u>L11</u>
<u>L10</u>	L7 and ic adj card	3	<u>L10</u>
<u>L9</u>	L7 and card	110	<u>L9</u>
<u>L8</u>	L7 and smartcard	5	<u>L8</u>
<u>L7</u>	L6 and (service adj provider or internet adj provider)	189	<u>L7</u>
<u>L6</u>	computer near5 connect? near5 internet	371	<u>L6</u>
<u>L5</u>	L4 and wireless	142	<u>L5</u>
<u>L4</u>	L3 and (password or pin)	296	<u>L4</u>
<u>L3</u>	L2 and (web or Internet or Internet adj access)	448	<u>L3</u>

 L2
 L1 and smartcard
 727
 L2

 L1
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Relevance scale

Focus on Embedded Systems

Rick Lehrbaum

January 2001 Linux Journal

Full text available: html(15.03 KB) Additional Information: full citation, index terms

PicoDBMS: Scaling down database techniques for the smartcard Philippe Pucheral, Luc Bouganim, Patrick Valduriez, Christophe Bobineau September 2001 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 10 Issue 2-3

Full text available: pdf(259.03 KB) Additional Information: full citation, abstract, index terms

Smartcards are the most secure portable computing device today. They have been used successfully in applications involving money, and proprietary and personal data (such as banking, healthcare, insurance, etc.). As smartcards get more powerful (with 32-bit CPU and more than 1 MB of stable memory in the next versions) and become multi-application, the need for database management arises. However, smartcards have severe hardware limitations (very slow write, very little RAM, constrained stable mem ...

Keywords: Atomicity, Durability, Execution model, PicoDBMS, Query optimization, Smartcard applications, Storage model

Using smartcards to secure a personalized gambling device

William A. Aiello, Aviel D. Rubin, Martin J. Strauss

November 1999 Proceedings of the 6th ACM conference on Computer and communications security

Full text available: pdf(762.94 KB) Additional Information: full citation, abstract, references, index terms

We introduce a technique for using an untrusted device, such as a hand-held personal digital assistant or a laptop to perform real financial transactions without a network. We utilize the tamper-resistant nature of smartcards to store value on them and perform probabilistic computations based on user input. We discuss an application of this to gambling. The technique has the properties that the user is guaranteed to make money when he wins and the house is guaranteed to make money w ...

A smartcard for authentication in WLANs

Marc Loutrel, Pascal Urien, Guy Pujolle

October 2003 Proceedings of the 2003 IFIP/ACM Latin America conference on Towards a Latin American agenda for network research

Full text available: pdf(333.05 KB) Additional Information: full citation, abstract, references, index terms

Wireless LANs based on the IEEE 802.11b standard have spread very quickly over the past few years. Nevertheless a lot of security issues remain and stop its deployment in corporations. One of the most important issues is the authentication of a terminal to an Access Point. We propose an interface to integrate the Extensible Authentication Protocol into smartcards and will show that smartcards could constitute the de-facto device for authentication in Wireless LAN as they are for GSM and will ...

Keywords: authentication, smartcard, wireless LANs

5	Computer applications: A Java OpenCard framework based medical smartcard system David Gildea, Tom Dowling June 2003 Proceedings of the 2nd international conference on Principles and practice of programming in Java	
	Full text available: pdf(193.50 KB) Additional Information: full citation, abstract, references, index terms	
	The architecture and use of the java OpenCard Framework, (OCF), to develop SmartCard systems is discussed. The protocols involved and the different layers that comprise the systems are also discussed. The design and implementation of an OCF based personal Medical SmartCard system is presented.	
	Keywords: OpenCard Framework, smart cards	
c	DITO.	
6	BITS: a smartcard protected operating system Paul C. Clark, Lance J. Hoffman November 1994 Communications of the ACM, Volume 37 Issue 11	
	Full text available: pdf(3.80 MB) Additional Information: full citation, references, citings, index terms	
_		
7	Linux Webpads Give PC Competition	
	Linley Gwennap May 2000 Linux Journal	
	Full text available: [3] html(5.90 KB) Additional Information: full citation, abstract, index terms	
	New hardware for a new generation.	
8	Mobility & wireless access: Dynamic service reconfiguration for wireless web access Siu-Nam Chuang, Alvin T.S. Chan, Jiannong Cao, Ronnie Cheung May 2003 Proceedings of the twelfth international conference on World Wide Web	
	Full text available: pdf(620.78 KB) Additional Information: full citation, abstract, references, index terms	
	This paper describes a dynamic service reconfiguration model where the proxy is composed of a chain of service objects called mobilets (pronounced as mo-be-lets), which can be deployed onto the network actively. This model offers flexibility because the chain of mobilets can be dynamically reconfigured to adapt to the vigorous changes in the characteristics of the wireless environment, without interrupting the service provision for	

Keywords: active services, dynamic service reconfiguration, wireless environment

other mobile nodes. Furthermore, mobilets can also be migrated t ...

adaptation, wireless web access

9	Formalizing the safety of Java, the Java virtual machine, and Java card Pieter H. Hartel, Luc Moreau	
	December 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 4	
	Full text available: pdf(442.86 KB) Additional Information: full citation, abstract, references, citings, index terms	
	We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java safety on small footprint devices such as smartcards. The conclusion is that although a lot of good work has been done, a more concerted effort is needed to build a coherent set of machine-readable formal models of the whole of Java and its implementation. This is a formidable task but we believe it is essential to build trust in Java safety, and thence to achieve ITSEC level 6 or Common Crite	
	Keywords: Common criteria, programming	
10	Oral II: Secure smartcardbased fingerprint authentication T. Charles Clancy, Negar Kiyavash, Dennis J. Lin November 2003 Proceedings of the 2003 ACM SIGMM workshop on Biometrics methods and applications	
	Full text available: pdf(452.50 KB) Additional Information: full citation, abstract, references, index terms	
	In this paper, the fundamental insecurities hampering a scalable, wide-spread deployment of biometric authentication are examined, and a cryptosystem capable of using fingerprint data as its key is presented. For our application, we focus on situations where a private key stored on a smartcard is used for authentication in a networked environment, and we assume an attacker can launch o -line attacks against a stolen card. Juels and Sudan's fuzzy vault is used as a starting point for buildi	
	Keywords: authentication, biometrics, fingerprint, smartcard	
11	Emerging applications: A new CRT-RSA algorithm secure against bellcore attacks Johannes Blömer, Martin Otto, Jean-Pierre Seifert October 2003 Proceedings of the 10th ACM conference on Computer and communications security Full text available: pdf(306.99 KB) Additional Information: full citation, abstract, references, index terms	
	Bin 1	
	In this paper we describe a new algorithm to prevent fault attacks on RSA signature algorithms using the Chinese Remainder Theorem (CRT-RSA). This variant of the RSA signature algorithm is widely used on smartcards. Smartcards on the other hand are particularly susceptible to fault attacks like the one described in [7]. Recent results have shown that fault attacks are practical and easy to accomplish ([21], [17]). Therefore, they establish a practical need for fault attack protected CRT-RSA schem	
	Keywords : Bellcore attack, Chinese remainder theorem, RSA, cryptanalysis, faults attacks, smartcards	
12	Nark: receiver-based multicast non-repudiation and key management Bob Briscoe, Ian Fairman November 1999 Proceedings of the 1st ACM conference on Electronic commerce	
	Full text available: pdf(168.86 KB) Additional Information: full citation, references, citings, index terms	

Keywords: Internet, audit trail, key management, multicast, non-repudiation, smartcard, watermark

13 Computer security (SEC): Protected transmission of biometric user authentication data for oncard-matching

Ulrich Waldmann, Dirk Scheuermann, Claudia Eckert

March 2004 Proceedings of the 2004 ACM symposium on Applied computing

Full text available: pdf(574.45 KB) Additional Information: full citation, abstract, references

Since fingerprint data are no secrets but of public nature, the verification data transmitted to a smartcard for oncard-matching need protection by appropriate means in order to assure data origin in the biometric sensor and to prevent bypassing the sensor. For this purpose, the verification data to be transferred to the user smartcard is protected with a cryptographic checksum that is calculated within a separate security module controlled by a tamper resistant card terminal with integrated bio ...

Keywords: authentication, biometrics, cryptographic protocols, data integrity, electronic signature, oncard-matching, smartcards, system security, tamper proof environment

14 Towards ubiquitous database in mobile commerce

Kimio Kuramitsu, Ken Sakamura

May 2001 Proceedings of the 2nd ACM international workshop on Data engineering for wireless and mobile access

Full text available: pdf(106.49 KB) Additional Information: full citation, abstract, references, index terms

Ubiquitous database places data everywhere. We focus on contactless smartcards combined with a small processor and memory for data storage. Very small DBMS implemented on them can interact through queries on a wireless communication. Ubiquitous database attaches such DBMSs to real world "objects" physically, and then allows different organizations to share information retrieved directly from physical goods, materials, or persons. We combined the theory with practice in the ticket ...

Keywords: data model and querying for ubiquitous data, mobile commerce, smartcard database, ubiquitous computing

¹⁵ Anonymous E-prescriptions

Giuseppe Ateniese, Breno de Medeiros

November 2002 Proceedings of the 2002 ACM workshop on Privacy in the Electronic Society

Full text available: pdf(304.10 KB) Additional Information: full citation, abstract, references

This paper studies issues related to privacy protection of medical data, arguing that the topic is suitable for applied cryptographic research. We present the problem of medicine prescription privacy and describe a practical system that employs standard cryptographic techniques to achieve several improvements over current practices. We also introduce a very simple tool: Online group signatures which can be built via simple primitives implemented in commonly employed cryptographic libraries.

Keywords: medical information privacy, privacy-preserving cryptographic techniques, public-key cryptography